

GENERAL WATER TREATMENT & MONITORING TRAINING

“Enhance Water Quality Management and Operational Reliability”

Schedule

Date	Venue	Fees (Online)
13 - 14 May 2026	Online	USD 700 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

Effective water treatment and monitoring are crucial for industrial, municipal, and commercial operations to ensure safe, clean, and compliant water use. This intensive 2-day online training equips participants with comprehensive knowledge of water treatment processes, monitoring techniques, and operational best practices.

The course covers chemical treatment, filtration, disinfection, water quality testing, monitoring methods, and regulatory compliance. Through case studies, workshops, and interactive discussions, participants will develop the skills required to maintain water quality, optimize treatment processes, and implement effective monitoring strategies.

Objectives

By the end of this course, participants will be able to:

- Understand fundamental water treatment processes and principles
- Implement effective water monitoring and testing techniques
- Apply chemical dosing and filtration strategies
- Ensure compliance with environmental and industry standards
- Optimize water treatment operations for efficiency and reliability
- Identify and mitigate risks associated with water quality and contamination

Why Attend

- Gain practical knowledge of water treatment and monitoring techniques
- Improve operational efficiency and water quality management
- Learn strategies for regulatory compliance and risk mitigation
- Develop skills to troubleshoot and optimize treatment processes
- Enhance professional capability in water resource management

Target Audience

This program is designed for:

- Water treatment engineers and operators
- Environmental and process engineers
- Maintenance and technical personnel involved in water management
- Quality control and compliance officers
- Professionals responsible for water monitoring, treatment, and reporting

Individual Benefits

Key competencies that will be developed include:

- Knowledge of water treatment principles and techniques
- Skills in water monitoring, testing, and chemical dosing
- Competence in filtration, disinfection, and water quality optimization
- Ability to identify and mitigate risks associated with water operations
- Improved decision-making in water management and treatment processes
- Enhanced professional credibility in water treatment and monitoring

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Enhanced water quality management and monitoring
- Optimized water treatment operations for efficiency and compliance
- Reduced operational risks and improved safety standards
- Strengthened regulatory compliance and reporting practices
- Improved sustainability and organizational reliability
- Increased confidence in managing water resources and treatment processes

Instructional Methodology

The course follows a blended virtual learning approach combining theory with practice:

- Strategy Briefings - Overview of water treatment processes, monitoring techniques, and regulatory requirements
- Case Studies - Real-world examples of water treatment and monitoring challenges
- Workshops - Hands-on exercises in chemical dosing, filtration, and monitoring
- Peer Exchange - Group discussions on operational issues and best practices
- Tools - Templates, checklists, and monitoring guides for water treatment operations

Course Outline

Detailed 2-Day Course Outline

Training Hours: 7:30 AM – 3:30 PM Daily Format: 3–4 Learning Modules | Breaks included | Lunch Break: 01:00 – 02:00

Day 1: Fundamentals of Water Treatment

Module 1: Water Treatment Principles (07:30 – 09:30)

- Overview of water sources, quality parameters, and treatment objectives
- Introduction to chemical and physical treatment methods

Module 2: Filtration and Disinfection Processes (09:45 – 11:15)

- Filtration techniques and equipment
- Disinfection strategies and chemical dosing

Module 3: Water Monitoring Techniques (11:30 – 01:00)

- Sampling methods and water quality testing
- Key performance indicators for water quality

Day 2: Optimization and Compliance

Module 4: Process Optimization and Risk Mitigation (07:30 – 09:30)

- Strategies to improve efficiency and reliability
- Identifying and mitigating operational risks

Module 5: Regulatory Compliance and Standards (09:45 – 11:15)

- Industry and environmental standards
- Ensuring compliance in monitoring and reporting

Module 6: Case Studies and Action Planning (11:30 – 01:00)

- Real-world examples and lessons learned
- Group exercises and implementation planning

Certification

Participants will receive a Certificate of Completion in General Water Treatment & Monitoring Training, validating their knowledge of water treatment processes, monitoring techniques, regulatory compliance, and operational best practices for reliable and efficient water management.

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